

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P505971

Luminaire Tested: **14PD-50-PL1-L830**

Issue Date: 3/26/2021



**Test Information**

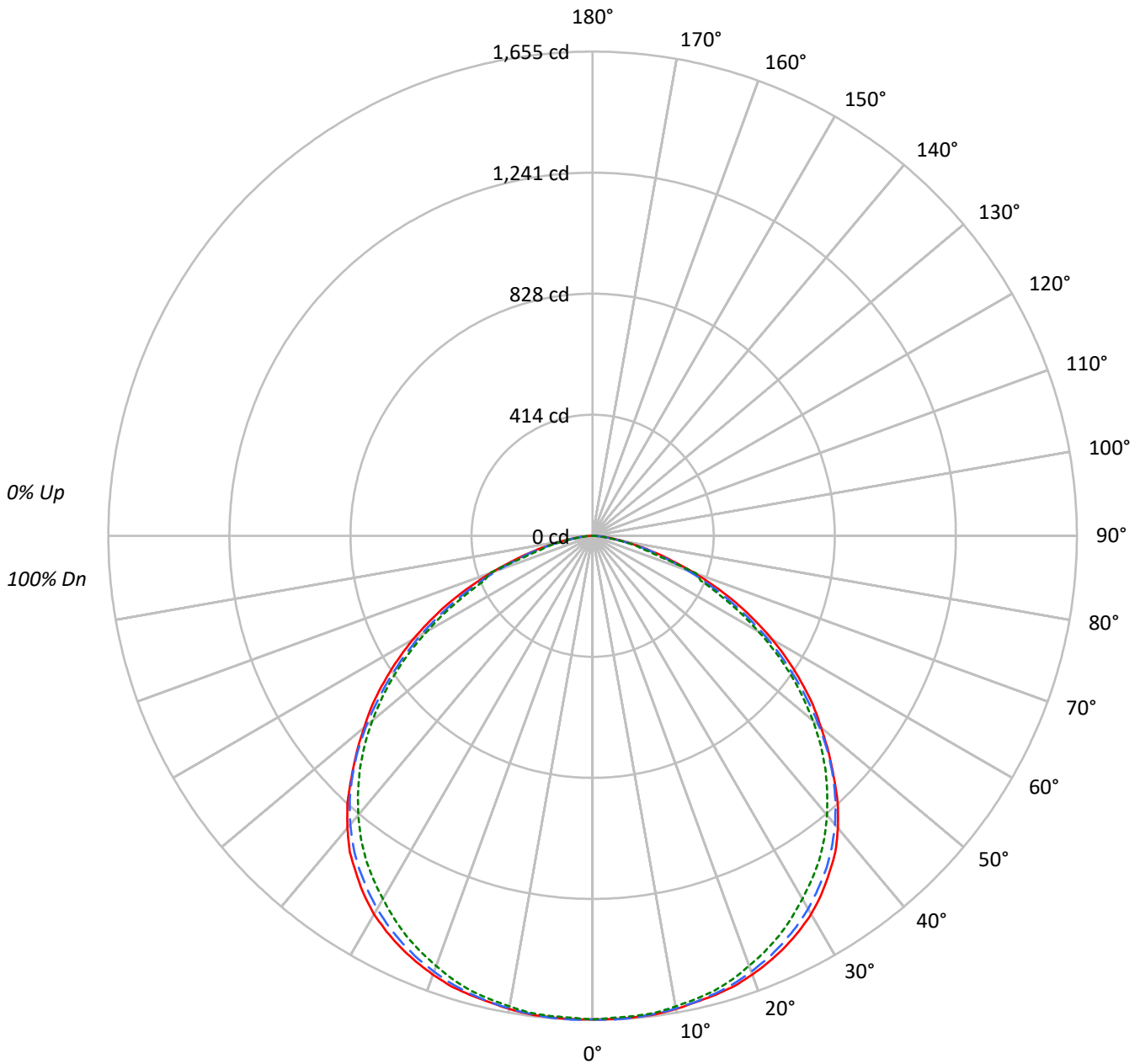
Test Method: LM-79-08  
Report Number: P505971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-50-PL1-L830  
Description: 5000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4595.2 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: P505971  
CATALOG NUMBER: 14PD-50-PL1-L830

### Luminous Intensity Polar Plot





TEST NUMBER: P505971

CATALOG NUMBER: 14PD-50-PL1-L830

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61																			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52																			
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45																			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40																			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35																			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31																			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28																			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4449	4449	4449
5°	4464	4466	4451
10°	4488	4483	4463
15°	4525	4513	4485
20°	4571	4540	4480
25°	4610	4564	4478
30°	4641	4576	4455
35°	4629	4570	4438
40°	4580	4526	4376
45°	4433	4419	4278
50°	4265	4227	4113
55°	4081	3962	3872
60°	3812	3640	3518
65°	3434	3220	3047
70°	2872	2693	2958
75°	2266	2180	1888
80°	1632	1449	1477
85°	1037	868	812



TEST NUMBER: P505971

CATALOG NUMBER: 14PD-50-PL1-L830

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.2	3.4
10°-20°	456.9	9.9
20°-30°	706.5	15.4
30°-40°	864.7	18.8
40°-50°	886.4	19.3
50°-60°	755.0	16.4
60°-70°	504.5	11.0
70°-80°	223.6	4.9
80°-90°	40.4	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1320.6	28.7
0°-40°	2185.3	47.6
0°-60°	3826.7	83.3
0°-90°	4595.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4595.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1653	1653	1653	1653	1653	
5°	1652	1649	1653	1652	1648	157
15°	1624	1619	1620	1615	1610	459
25°	1553	1547	1537	1517	1508	716
35°	1409	1406	1391	1360	1351	881
45°	1165	1168	1161	1135	1124	899
55°	870	865	844	827	825	776
65°	539	535	506	483	478	532
75°	218	221	210	211	182	236
85°	34	33	28	27	26	45
90°	0	0	0	0	0	



TEST NUMBER: P505971

CATALOG NUMBER: 14PD-50-PL1-L830

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1653.4	1653.4	1653.4	1653.4	1653.4
2.5°	1653.4	1650.6	1655.2	1657.0	1648.8
5°	1652.4	1648.8	1653.4	1652.4	1647.9
7.5°	1649.7	1643.4	1647.9	1646.1	1644.3
10°	1642.5	1637.0	1640.6	1637.9	1633.4
12.5°	1632.5	1628.8	1631.6	1628.8	1622.5
15°	1624.3	1618.9	1619.8	1615.2	1609.8
17.5°	1613.4	1605.2	1605.2	1596.2	1589.8
20°	1596.2	1588.9	1585.3	1572.6	1564.4
22.5°	1576.2	1570.7	1563.5	1547.1	1538.0
25°	1552.6	1547.1	1537.1	1517.2	1508.1
27.5°	1525.3	1518.1	1507.2	1483.6	1472.7
30°	1493.6	1484.5	1472.7	1446.3	1433.6
32.5°	1454.5	1448.2	1432.7	1405.5	1393.7
35°	1409.1	1405.5	1391.0	1360.1	1351.0
37.5°	1362.8	1355.6	1342.8	1310.2	1301.1
40°	1303.8	1299.3	1288.4	1256.6	1245.7
42.5°	1240.2	1237.5	1228.4	1198.5	1186.7
45°	1164.9	1168.5	1161.3	1134.9	1124.0
47.5°	1093.2	1091.3	1088.6	1065.0	1055.9
50°	1018.7	1015.1	1009.6	990.6	982.4
52.5°	948.8	941.5	927.0	910.7	905.2
55°	869.8	865.3	844.4	827.1	825.3
57.5°	789.9	787.2	761.8	741.8	741.8
60°	708.2	704.6	676.4	655.5	653.7
62.5°	622.8	620.1	591.1	567.5	568.4
65°	539.3	534.8	505.7	483.0	478.5
67.5°	452.2	450.3	422.2	401.3	399.5
70°	365.0	365.0	342.3	324.1	375.9
72.5°	287.8	285.1	266.9	258.8	247.0
75°	217.9	220.6	209.7	210.6	181.6
77.5°	155.3	150.7	146.2	136.2	144.4
80°	105.3	102.6	93.5	90.8	95.3
82.5°	65.4	66.3	58.1	52.7	51.8
85°	33.6	32.7	28.1	27.2	26.3
87.5°	12.7	13.6	11.8	10.9	10.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)